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# **New Modeling and Simulation Coordination and Management Structure**

**Congressional Leadership Summit  
Chesapeake, VA**

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**Mr. Fred Hartman  
Deputy Director, Readiness and Training,  
Office of the Secretary of Defense**

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# Why DoD Needs a New Management Structure for M&S

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- **The Original Vision for Implementing M&S (5000.59)**
  - A coordinated DoD M&S Investment Plan (Never completed)
- **If we'd truly implemented the DoD 5000.59 starting in 1994...**
  - Would we have common technical development frameworks?
  - Would we have legacy systems with models ready for test and maintained across the life-cycle?
  - Would we be able to help systems interface and exchange data during System Engineering?
  - Would we be able to help create common threat systems and environments for System Engineering?
  - Would we have joint environments today implemented with credible M&S?
  - Would we be able to pull together a Live, Virtual, and Constructive joint capability environment using credible M&S?



# Why DoD Needs a New Management Structure for M&S (con't)

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- **The Promise: Lower Costs**
  - The Reality: JMASS, JSIMS and JWARS
    - Credible M&S is not necessarily simple or cheap
- **The Promise: Reuse**
  - The Reality: Re-use across programs & across acquisition phases within a program is low
- **The Promise: Commonality**
  - The Reality: Little standardization, little commonality. Programs build their own models for their own purposes.
    - VV&A processes not enforced – lots of strategies but expensive
    - How much standardization do we need?
    - DOD standards / considerations are unique



# Step 1: Reforming DoD Management

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- **Centralized coordination and management for M&S still required in DoD**
- **The Program Decision Memorandum directed GO / SES Steering Committee and the Interim Executive Committee have now merged into the M&S Steering Committee**
- **DoD to revise DoDD 5000.59, DoD M&S Management.**
  - In formal coordination
- **M&S funding remains fixed at current levels until business plans and outreach is completed**



# Step 2: Devise a New M&S Management Structure

**New M&S Management Structure Organized by Communities; Designed to Support Communities**

**1-2 Star M&S Steering Committee (M&S SC) provides governance (formerly EXCIMS)**

**M&S SC and IPT supported by the & M&S CO (formerly DMSO)**

**Acquisition**  
AT&L

**Analysis**  
PA&E  
& JS

**Planning**  
JS  
& Policy

**Testing**  
DOT&E  
& AT&L

**Training**  
P&R

**Experimentation**  
JFCOM

**Common and Cross-Cutting M&S Tools**

**Common and Cross-Cutting M&S Data**

**Common and Cross-Cutting M&S Services**

(SE FORUM)

(JADM/SC)

(AP EXCOM)

(T2/ESG)

(JCDE EC)

**\$B Goals:**

- Reuse
- Interoperability
- Efficiencies

**Components**

OSD, Joint Staff, COCOMs, Services

**\$B Goals:**

- Commonality
- Effectiveness
- Visibility/Accessibility



## **Step 3: Establish Plans and Processes for the M&S Steering Committee**

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- **New DoD Instruction 5000.XX**
  - Provides Specifics on Responsibilities, Processes, and Procedures
- **Community Business Plans**
  - Current Capabilities
  - Needs and Initiatives.
  - Captures M&S Tools, M&S Data, and M&S Services
- **Common and Cross-Cutting Business Plan**
  - Consolidates M&S Tools, M&S Data, and M&S Services
- **Vision and Processes Still Emerging**
  - To affect change within the \$Billions spent on M&S investments across the M&S enabled Communities
  - To allocate the \$Millions in the Joint Warfighting Simulation Program Element as one tool to affect that change



## **Step 4: Continually Evaluate Progress Against Original Goals**

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- **The Goal: Effective, Efficient M&S support of Joint Operations**
  - Need M&S to be more credible and affordable
- **The Goal: Reuse**
  - Re-use across programs & communities must increase
- **The Goal: Commonality**
  - Standardization and commonality consideration as needed





# Summary

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- **DoD M&S management continuing to evolve toward integrating and leveraging of the capabilities in support of the Joint Operations**
- **We need help from our industry, academia, and interagency partners!**

